

Application No.: 09/898,398
Applicant: Hutchison
Filed: July 3, 2001
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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1-61. (Cancelled)

62. (New) A kit comprising an antibody that recognizes and binds a bioactive, three-dimensional epitope of parathyroid hormone, the bioactive, three-dimensional epitope consisting of amino acids 1-13 of SEQ ID NO: 1.

63. (New) The kit of claim 62, further comprising a detectable label coupled to the antibody.

64. (New) The kit of claim 63, wherein the detectable label is selected from the group consisting of chemiluminescent markers, fluorescent markers, radioactive markers, and enzymatic markers.

65. (New) The kit of claim 63, wherein the detectable label is an acridinium ester.

66. (New) The kit of claim 62, further comprising tools for obtaining a biological sample containing parathyroid hormone from a patient.

67. (New) An isolated antibody that recognizes and binds a bioactive, three-dimensional epitope of parathyroid hormone, the bioactive, three-dimensional epitope consisting of amino acids 1-13 of SEQ ID NO: 1.

68. (New) The antibody of claim 67, wherein the antibody is a polyclonal antibody.

69. (New) A composition comprising the antibody of claim 67.

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70. (New) A method for detecting bioactive parathyroid hormone in a sample, comprising

- a) exposing a sample to an antibody that recognizes and binds a bioactive three-dimensional epitope of parathyroid hormone, the bioactive, three-dimensional epitope consisting of amino acids 1-13 of SEQ ID NO: 1; and
- b) detecting an antibody-hormone complex of the antibody and the parathyroid hormone, thereby detecting the bioactive parathyroid hormone in the sample.

71. (New) The method of claim 70, wherein the antibody that recognizes and binds the bioactive three-dimensional epitope of parathyroid hormone is coupled with a detectable marker.

72. (New) The method of claim 70, further comprising exposing the antibody-hormone complex to another antibody that recognizes and binds parathyroid hormone before step (b).

73. (New) The method of claim 70, wherein the detecting step comprises measuring a chemiluminescent signal.

74. (New) An isolated antibody that recognizes and binds a bioactive, three-dimensional epitope of parathyroid hormone, the bioactive, three-dimensional epitope including a first portion located between amino acids 1-6 of SEQ ID NO: 1 and a second portion located between amino acids 7-13 of SEQ ID NO: 1.

75. (New) The antibody of claim 74 provided in a kit.

76. (New) The antibody of claim 74 coupled to a detectable label.

77. (New) The antibody of claim 74 coupled to an acridinium ester.

78. (New) The antibody of claim 74, wherein the bioactive, three-dimensional epitope consists of amino acids 1-13 of SEQ ID NO: 1.

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79. (New) The antibody of claim 74 wherein the antibody is a polyclonal antibody.

80. (New) A composition comprising the antibody of claim 74.

81. (New) The antibody of claim 74, wherein the first portion consists of amino acids 1-2 of SEQ ID NO: 1, and the second portion consists of amino acids 10-13 of SEQ ID NO: 1.

82. (New) The antibody of claim 74, wherein the first portion includes amino acid 1 of SEQ ID NO: 1.